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**DATA PROCESSING
SYSTEMS
ENCYCLOPEDIA**



— A HUGE COMPUTER COMPARISON CHART HAS RECENTLY BEEN ADDED GIVING CRITICAL INFORMATION, SYSTEM BY SYSTEM, AT A GLANCE. THIS IS THE MOST AMBITIOUS PROJECT OF THIS TYPE EVER ATTEMPTED.

Classification	Classification	
Subclassification	Subclassification	
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Product	Product	
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Western Union Data Standards	University of California	
SYNAC Computer System	MAN/IO Computer System	476.51
SECAC Computer System	University of Illinois	476.51
SHAC Computer System	ULAC Computer System	476.51
Western Case Register Company, Inc.	OVAC Computer System	476.51
NC- 304 Computer System		
NC- 315 Computer System		
NC- 315 34C Computer System		
NC- 380 Computer System		
NC- 390 Computer System		
East Ridge National Laboratory		
ORACLE Computer System		
Parker Bell Computer Corporation		
PR 20 Computer System		
Polaris Corporation		
710 & 711 Computer Systems		
712 Computer System		
7200 Computer System		
7300 Computer System		
3000 Computer System		
Radiation Corporation of America		
RHAC Computer System		
RCA 301 Computer System		
RCA 501 Computer System		
RCA 601 Computer System		
Specira 7015 Computer System		
Specira 7025 Computer System		
Specira 7025 Computer System		
Specira 7345 Computer System		
Specira 7345 Computer System		
The Rand Corporation		
RHWRAC Computer System		
Sylvania Electronic Products, Inc.		
SHAC Computer System		
Teleoperator Corporation		
Magnum-Bell Adair Computer System		
Tenax Computer System		
Unifac Adair Computer System		
Thompson Business Machines, Inc.		
FM 300 Computer System		
FM 400 Computer System		
TBW 200 Computer System		
Union Pacific, Sperry Rand Corporation		
UNIVAC II Computer System		
UNIVAC III Computer System		
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UNIVAC 302 Data Processing Management System		
UNIVAC Sane Store Computer System		
UNIVAC STT Computer System		
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Subclassification	Subclassification	
Manufacturer	Manufacturer	
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ACS, Incorporated	MAN/IO Computer System	476.51
Analogy 200 Hybrid Computer System		476.51
D. Special Purpose Computer Systems	University of Illinois	
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8251 VHS Video Reader Computer System		476.51
General Electric Company		
GE 700 Scan Based System		476.51
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3000 Teleview Imaging Computer		476.51
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Magnum-Bell Adair Computer System		476.51
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A. Facsimile		
Addressograph-Multigraph Corporation		
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Fidels, Inc.		
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International Business Machines Corporation		
IBM 237 Data Collection System		476.51
IBM 230 Data Collection System		476.51
IBM 230 Data Collection System		476.51

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Cross and Company, Ltd.									
			5525 Automatic Transmitter	0150.1					
			750 Type Pack	0150.3					
			54 Transmitter	0150.5					
Friden, Inc.									
			2 Cyclicalline Tape or Paper-Loaded Card Transmitter	0200.5					
			Card Reader-Tape Transmitter-Receiver	0200.7					
			Collectionists 104 Card Transmitter	0200.9					
			Teletype Transmitter-Receiver	0201.1					
Remington Electric Company									
			Definit 15	0300.1					
			Definit 20	0300.2					
			Definit 30	0300.4					
			Definit 62	0300.5					
			Definit 62	0300.6					
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			IBM 1050 Data Communication System	D113.3					
			IBM 1050 Link Entry Terminal	D113.4					
			IBM 1775 Access Regulator Unit	D415.6					
Polar Graphic									
			PDC-1500 Communications Processor	D051.1					
Rady Corporation									
			100 Data Transmission System	0600.1					
			100 Data Transmission System	0600.1					
			110 Data Transmission System	0600.2					
			110 Data Transmission System	0600.2					
			200 Data Receiver	0600.3					
			200 Data Receiver	0600.3					
			200 Data Receiver	0600.3					
			200 Data Receiver	0600.3					
			200 Data Receiver	0600.3					
			300 Send/Receive System	0604.3					
			300 Send/Receive System	0604.3					
			700 Magnetic/Paper Tape Converter & Transceiver System	0604.4					
Remington Corporation									
			1200 Printing Reproductor	D465.1					
Remont Division, Remont Rand Corporation									
			1 Data Line Terminal	0710.1					
			2 Data Line Terminal	0710.2					
Western Union Telegraph Company									
			15 Transmitter	0750.1					
			19 Automatic Selecting and Receiving Set	0750.2					
			20 Automatic Send-Receive Set	0750.4					
			20 Transmitter	0750.5					
			20 Transmitter	0750.6					
			28 LPR Typing Reproductor	0750.7					
			115.4 Automatic Data Control System	0750.8					
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Control Data Corporation									
			405 High Speed Card Reader	D140.3					
Bates Corporation									
			CR-101 Card Reader	D151.1					
Friden, Inc.									
			Collectionists Data Collection System	0200.3					
Remont Electric Co.									
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			20-2000 Magnetic Tape Handler	D405.27					
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			DT-10 Mobile Tape Reader	0607.1					
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Friden, Inc.									
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Classification
Subclassification
Manufacturer
Product

Western Union Telegraph Company

13 Telegraph
13 Automatic Sending and Receiving Set
13 Automatic Send-Receive Set
13 Telegrapher

E. Card Punches
General Electric Company
42, 300 Series Card Punched

International Business Machines Corporation
IBM 412 Tape to Card Punch
IBM 413 Tape to Card Punched Punch
IBM 541 Card Read Punch
IBM 542 Card Read Punch
IBM 1202 Optical Reader Card Punch

Bull's Corporation of America
Spectra 70/206 Card Punch
Spectra 70/206 Card Punch

Reed Industries Corporation
761.013 Labeling Punch
802.1 Memory Punch
6146 Repeating
6203 Hand Grinder
6206 Electric Card Encoder
6300 Digi-Punch
6300 Saw Punch

Union Electric, Specialty Band Corporation
202 Portable Electric Punch
264.2 Numerical Punch
264.3 Numerical Punch
301 Saw Punch
266.2 Alphabetical Punch
266.3 Alphabetical Punch
266.6 Card-Matic Punch
266.7 Card-Matic Punch

Varilink, Inc.
Var-Punch

Z. Miscellaneous
Felden, Inc.
C/P Computer
C/P Transfer-Product

International Business Machines Corporation
IBM 538 Document Organizing Machine
IBM 538 Piling Document Punch

6. DATA STORAGE EQUIPMENT
A. Drums
Pulse Corporation
Memory Drum System
Bull's Corporation of America
Spectra 70/535 Drum Memory Unit

B. Disk
General Electric Company
45, 46 Series Disk Drive

Dramatic

Subclassification

Manufacturer

Product

C. Sorters

International Business Machines

82 Model / Sorter
82 Series
84 Model / Sorter
Borg-Warner Corporation
Report Selector
Bauer, Rudine, Sperry Rand Corp.
209 Mechanical Sorter
221 Sorter
335 Mechanical Sorter
321 Sorter
4201 Electronic Sorter
421 Electronic Sorter

D. Collators

International Business Machines Co.
77 Collator
75 Collator (Manual)
87 Collator (Manualized)
88 Collator (Manual)
96 Collator (Manualized)

Bauer, Rudine, Sperry Rand Corp.
3373 Automatic Collator

E. Reproductors

Addressograph Multigraph Corporation
5500 Optical Case Reader
International Business Machines
514 Reproducing Punch
519 Document Organizing Machine
534 Duplicating Summary Punch
578 Printing Summary Punch
528 Accounting Reproducer
Borg-Warner Corporation
No. 614 Fabricating Punch
Bauer, Rudine, Sperry Rand Corp.
303 Multi-Color Reproducing
3021 Interleaf Reproducing P.
3020 Automatic Reproducing P.
314 Reproducing Punch
3551 Copying Reproducing
3017 The Controlled Card Rep.

F. Interpreters

International Business Machines Co.
543 Interpreter
557 Automatic Interpreter
557 Automatic Interpreter
Bauer, Rudine, Sperry Rand Corp.
3 Interpreter

G. Accounting Machines

Hermes Corporation
7500P Accounting Machine
7100AP Automatic Accounting
7500P Dual Printer Accounting

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CIP Computer

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		Idem, Inc.	35 Calculator Data Collection System	02003	J.	Magnetic		
			Telex Tapes Transmitter-Receiver	02010	K.	Control		
		General Electric Company	GE 200 Series Paper Tape Reader and Punch	02016	K.	Control		
		International Business Machines Corporation	405 Card Controlled Tape Punch	04152	Z.	Magnetic		
			844 Typewriter Tape Punch	04152	Z.	Magnetic		
			844 Typewriter (No Channel)	04143				
		National Cash Register Company	24 Punched Paper Tape Recorder	04057				
		Data Corporation of America	24 Paper Tapes	02062				
			76272/721 Paper Tapes	02062				
		Telequipment Corporation	7074 Punched Recorder	04063				
		Visiplot Corporation	28 81 Typing Recorder	06755				
			81 Repeater/Transmitter-Distributor	06753				
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"Leaves No Questions Unanswered", Say Leading Associations and Publications

"Here at last is a publication which offers up to date comparative information on all announced data processing equipment. The compilation of specifications and pricing information on competitive data processing equipment in standard terms is an invaluable asset to anyone engaged in the evaluation of such equipment. The novelty of terms, the exaggerated claims, the lack of detail found in most advertising literature on the subject, make a comparative analysis extremely difficult. The Data Processing Systems Encyclopedia will save hours of labor."

Data Processing Management Association

"Unlike many of the predecessors in the equipment compilation field, there is evidence that these reviews are original and somewhat evaluative."

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"This publication takes the mystery out of electronics, and helps anyone planning for data processing. The introduction to the Encyclopedia is a history of data processing that helps make the contents graphically clear. The illustrations, coupled with detailed equipment descriptions, give the reader a complete picture. The contents and glossary pages leave no questions unanswered."

Modern Office Procedures

"The Data Processing Systems Encyclopedia is an especially important work, for it brings together, into a single format, objective and current information about all electromechanical and electronic business data processing equipment . . . The Encyclopedia is the first standard source of comparative data about all data processing equipment."

SABE Data Processor

"This encyclopedia (the most complete of its kind we have seen) thoroughly and systematically lists electromechanical devices (punched card, punched tape, related systems) available, and includes a complete volume on electronic devices."

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Dartnell Office Administration Service

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Perhaps, to a lesser degree, you have experienced the same feeling . . . the need to know more about EDP and its many facets. If this is the case, you may wish to investigate the Data Processing Systems Encyclopedia. Upon reviewing the contents, I find it to be a welcome and excellent addition to our reference library.

Actually, as your Director, I feel it incumbent to bring this Data Processing Systems Encyclopedia to the attention of NBFA members.

National Business Forms Association

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ES OF VITAL INFORMATION

opedia contains the major

plus additional sections on

CUMULATIVE MASTER INDEX

A single reference point to make use of the entire Equipment Encyclopedia Service easy and effective, the issues of the Master Index are the starting point of equipment look-ups. Simple and easy to use, the Master Index includes both a serial listing of all equipment arranged by manufacturer and a classified listing of equipment by function. Punched for insertion in the ring binders (which hold the updatings). Throw away the old index each time you insert the new one.

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COMPUTER APPLICATIONS

General/Military

ESTIMATING COMPUTER SYSTEM RUNNING TIME

By James R. Kudlinski¹

ONE OF THE MAJOR CRITERIA used in selecting an electronic data processing system, and probably the most important, is whether or not the configuration is capable, within reasonable time limits, of accomplishing the objectives for which it is to be installed. An actual computer run of the total processing involved is one method of obtaining this primary determination. However, under the majority of circumstances, a processing run of this type is impractical, if not impossible. An

MISCELLANEOUS FEATURES

GLOSSARY OF AUTOMATIC DATA PROCESSING

A GUIDE TO USERS

1. Typography and General Format.

Terms in this glossary appear in a single alphabetic sequence, ignoring commas or hyphens. Lower case, bold characters are used for terms, except acronyms and the initial letters of proper nouns, for which capital, bold letters are used. Lighter face characters are used for definitions and for cross referencing or clarifying terms.

2. Key Words and Modifiers.

Definitions are given only under *key word* entries. Such entries may be either single word or multiple word terms, and may be nouns or other parts of speech. For example:

address	(noun)
address, direct	(noun, multiple term)
algorithmic	(adjective)
assemble	(verb)
auto-abstract	(noun; verb)

Modifiers consisting of more than one word are listed in spoken or normally used sequence. For example:

program, internally stored
record, fixed length

3. Preferred Terminology.

When two or more terms have the same meaning, definitions are given only under the preferred term. The phrase, "same as . . ." is used to indicate the term under which the definition appears. For example:

quantizer, same as (digitizer).

All synonymous terms are given at the end of the definition. For example:
digitizer, a device which converts an analog measurement into digital form. Synonymous with (quantizer).

4. Cross Referencing.

Other relationships between terms are shown by descriptive referencing ex-

General Data Processing Informa
Comparative Charts, Glossaries, I
cals, and other reference services.

PROMOCOM

GENERAL ELECTRIC COMPANY COMPUTER DEPARTMENT

PROMOCOM (for Project Monitor and Control Method) is a General Electric computer program which monitors and controls those projects where timing and costs are critical. Essentially, it is an extension to the GE/CPM (Critical Path Method) program. It is used to calendar date the CPM schedule and finally becomes a means for reporting project progress and providing project status for management control. PROMOCOM can be used on any of the "Compatibles" — General Electric's group of computers including the GE-215, 225, or 235.

How PROMOCOM works

The need for PROMOCOM evolved from the requirements of CPM users for a method whereby they could monitor and update a selected CPM schedule without constant replanning and project CPM package. CPM plus PROMOCOM provides five steps to project management: Planning, Activity Progress Reporting, Project Status Reporting, and Controlling. The entire of like this:

Planning and scheduling

These two functions are accomplished by the CPM technique and program. Here, the project is broken down into specific activities. An arrow diagram is used to define activities. The essential tool in determining precedence and in showing results for easy understanding are durations (both normal and crashed) for each activity in the network. These estimates and the arrow diagram relationship to determine alternate schedules on a least time/least cost basis. The output of a summary of schedules indicating project and associated direct cost.

Activity project reporting

While the output of CPM becomes PROMOCOM, additional information is provided. PROMOCOM can be used effectively. Information cannot be computer generated. A and completing date must be assigned for each activity. We must indicate whether the activity is a 5, 6, or 7 day week, and we must indicate days which occur during the project period. Information is recorded on punched cards to the CPM output information. Now to process the last two project management functions: Project Status Reporting and Controlling.

Project status reporting and controlling

These two functions are completely

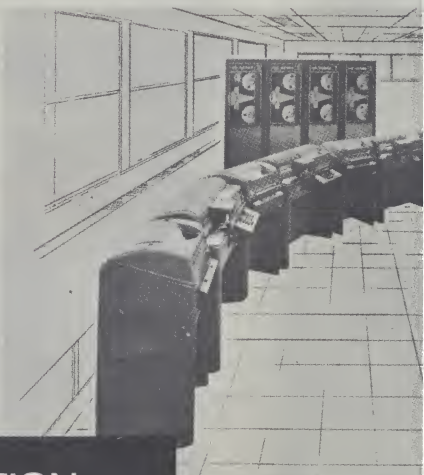
the PROMOCOM program. Activities and programs are involved:

Set-up — produces the initial CPM schedule by converting relative CPM times to a selected CPM schedule to actual calendar dates and provides the master tape file for Monitor system applications. A scheduled start and finish date is established for each job in the project. These dates, in turn, become the basis for monitoring progress on the project.

Monitor — reports the periodic progress of a project during implementation of the work. It generates progress reports throughout the duration of a project. If any of the activities are off schedule and causing slippages, Monitor shows the effect of these slippages on the overall project. The report indicates which

SOFTWARE

PCP-150



DATA COLLECTION, COMMUNICATIONS AND TRANSMISSION

a high-speed communication system designed and developed by the unique requirements of a message and data communications environment. The PCP-150 processes communication-based information of data processing and communication systems.

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Index to Books and Periodi-
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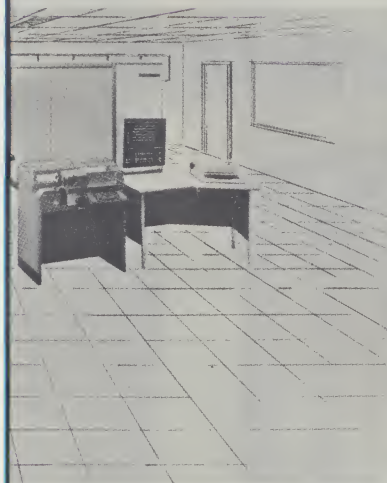
RE

CONTROL DATA 3600

COMPUTERS AND COMPUTER SYSTEMS



PHILCO CORPORATION



Magnetic core storage (options available):
32,768 51-bit words in two independent 16,384
word units.
Input/Output.
Transmission of 48-bit words (12-bit bytes).
Four separate bi-directional input/output channels
(options available).
Rem interrupt.
Flexible repertoire of instructions:
Fixed point arithmetic (integer and fractional).
Floating point arithmetic (single and double
precision).
Logical and masking operations.
Variable length data manipulation.
Block transfers.
Caching.
Ge searching.
Resizing.
Arithmetic:
Two's complement (one's complement) for single
precision operations.

PERIPHERAL, PUNCHED CARD AND SPECIAL EQUIPMENT

communications data. It optimizes the over-all communications
system by providing message logging, accumulation
and analysis of traffic statistics, circuit supervision and
control, station interrogation, code conversion, speed
conversion, plus error detection and correction.

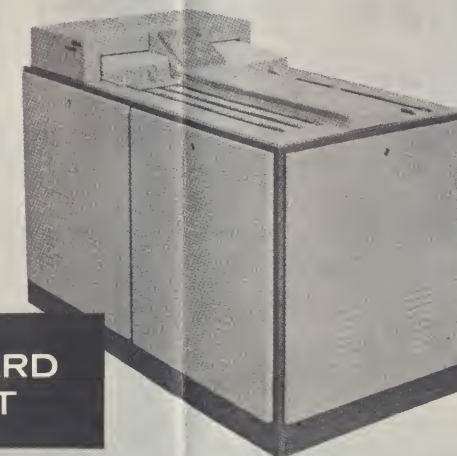
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FARRINGTON SCANNERS PRICE SCHEDULE

	Item 132-1 Monthly ^{1, 2} Rental	Item 132-5 Purchase ³ Price	Item 132-9 Monthly Maintenance Charge 0-36 Months	Item 132-9 Thereafter
Document Optical Scanners				
Model 1D3C	\$2,720	\$ 93,600	\$520	\$575
Model 1D3M-1	3,425	118,320	645	710
Model 1D3M-2	2,740	94,500	520	575
1D Series (Features)				
D1 — Batch Header	\$ 75	\$ 2,640	\$ 15	\$ 17
D4 — Alpha Capital Character Set, 12H Selfcheck	940	32,640	175	190
	140	4,800	26	30
	210	7,200	40	45
Character Set, 12L Selfcheck	940	32,640	175	190
Motor	395	13,680	75	82
	\$3,295	\$114,000	\$615	\$675
Model 1P3P-2	3,645	126,480	675	735
Model 1P3M-1	4,005	138,960	740	815
1P Series Features				
P3 — Alpha Capitals 12L	\$ 940	\$ 32,640	\$175	\$190
P4 — Alpha Capitals 12H	940	32,640	175	190
			10	18
			\$560	560
			560	560
			\$ 17	55
			10	10
			\$ 17	55
			10	10

380-3 HIGH SPEED CARD READER THE NATIONAL CASH REGISTER COMPANY



2-1 and 132-5
of Farrington

THE 380-3 HIGH SPEED CARD READER provides Mode of reading: